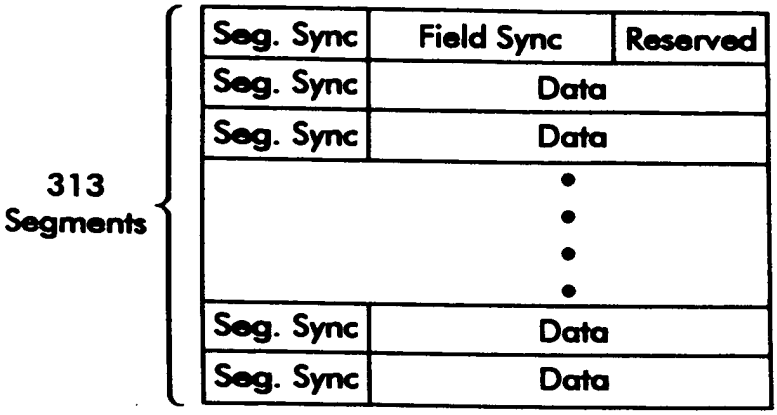

Figure 1

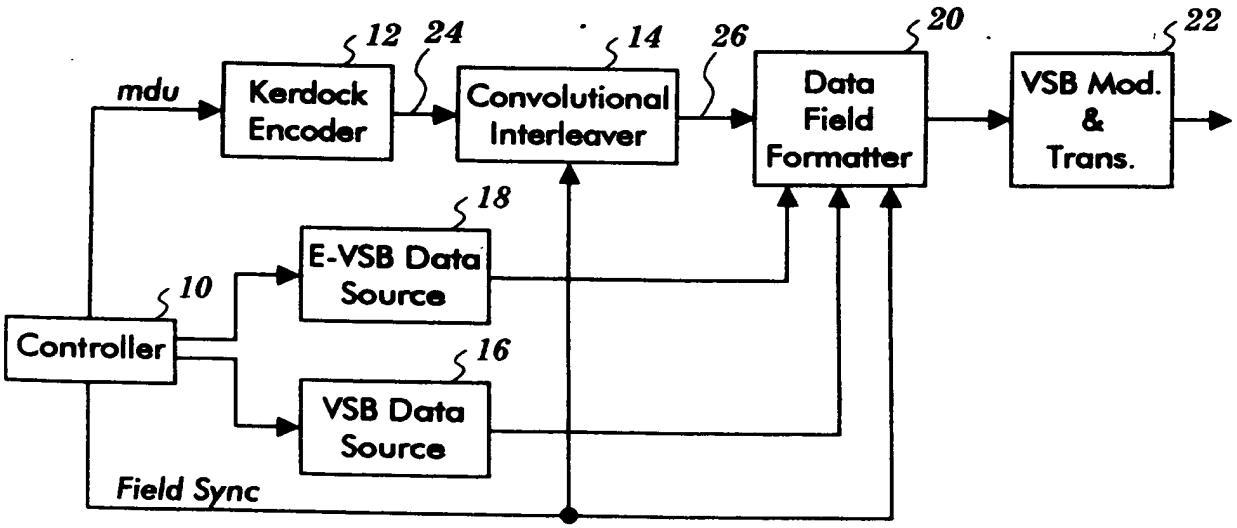

Figure 2

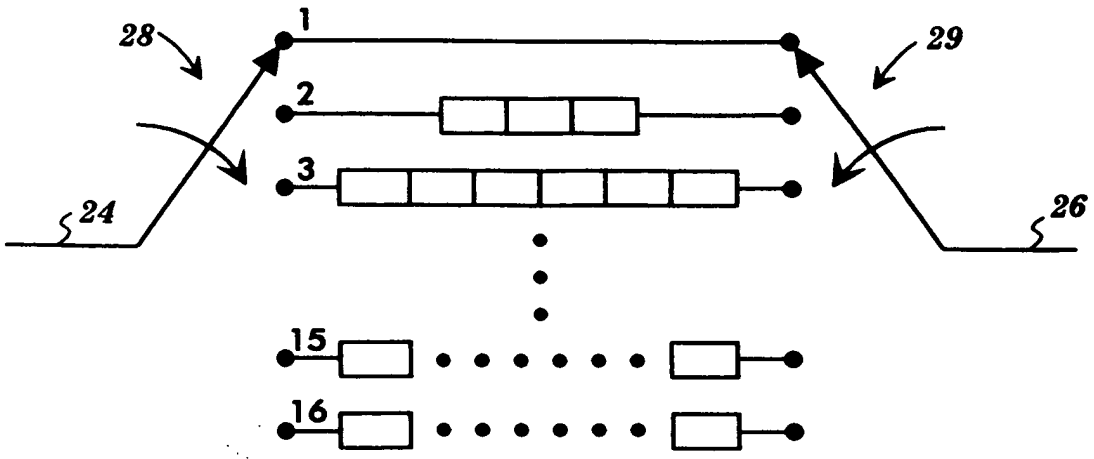

Figure 3

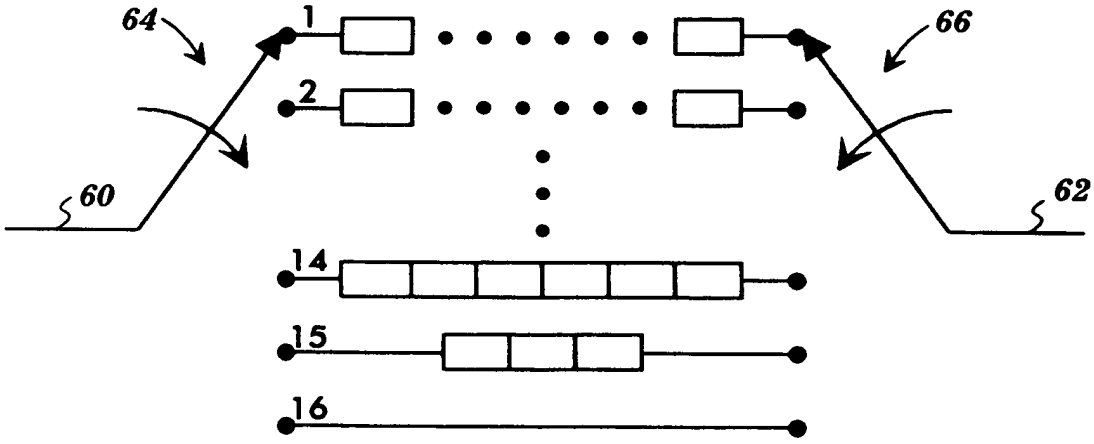

Figure 5

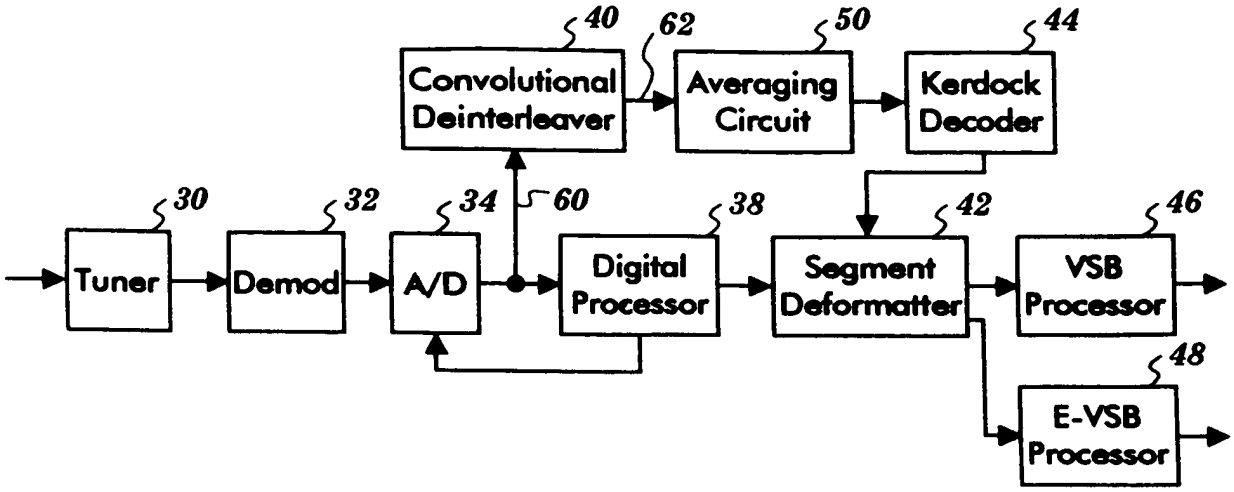

Figure 4

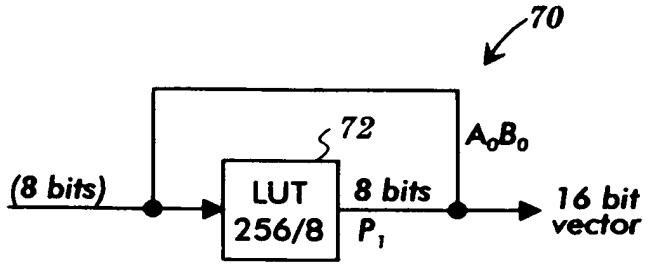

Figure 6

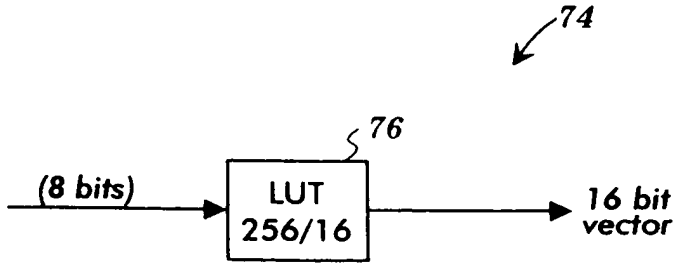

Figure 7

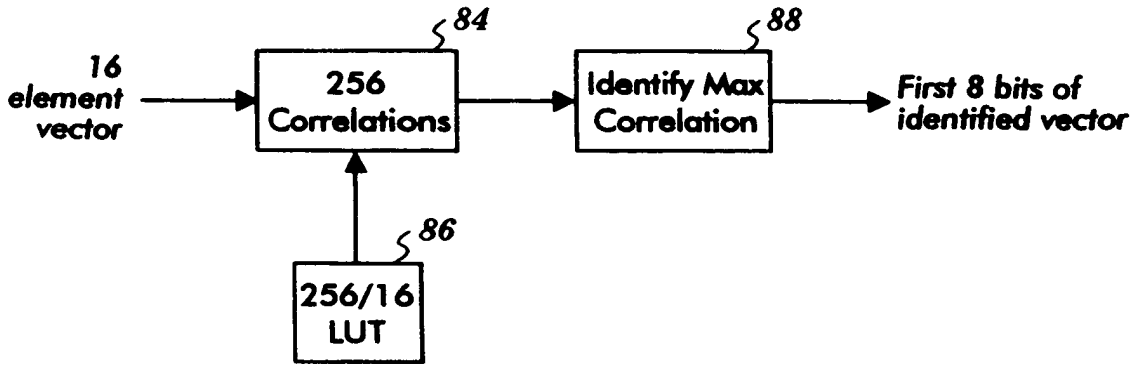

Figure 8

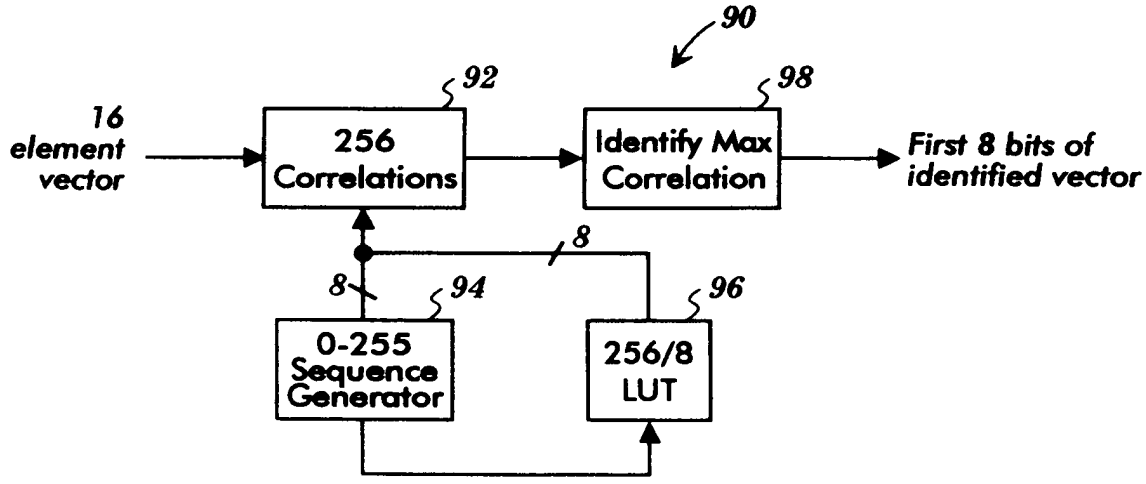

Figure 9

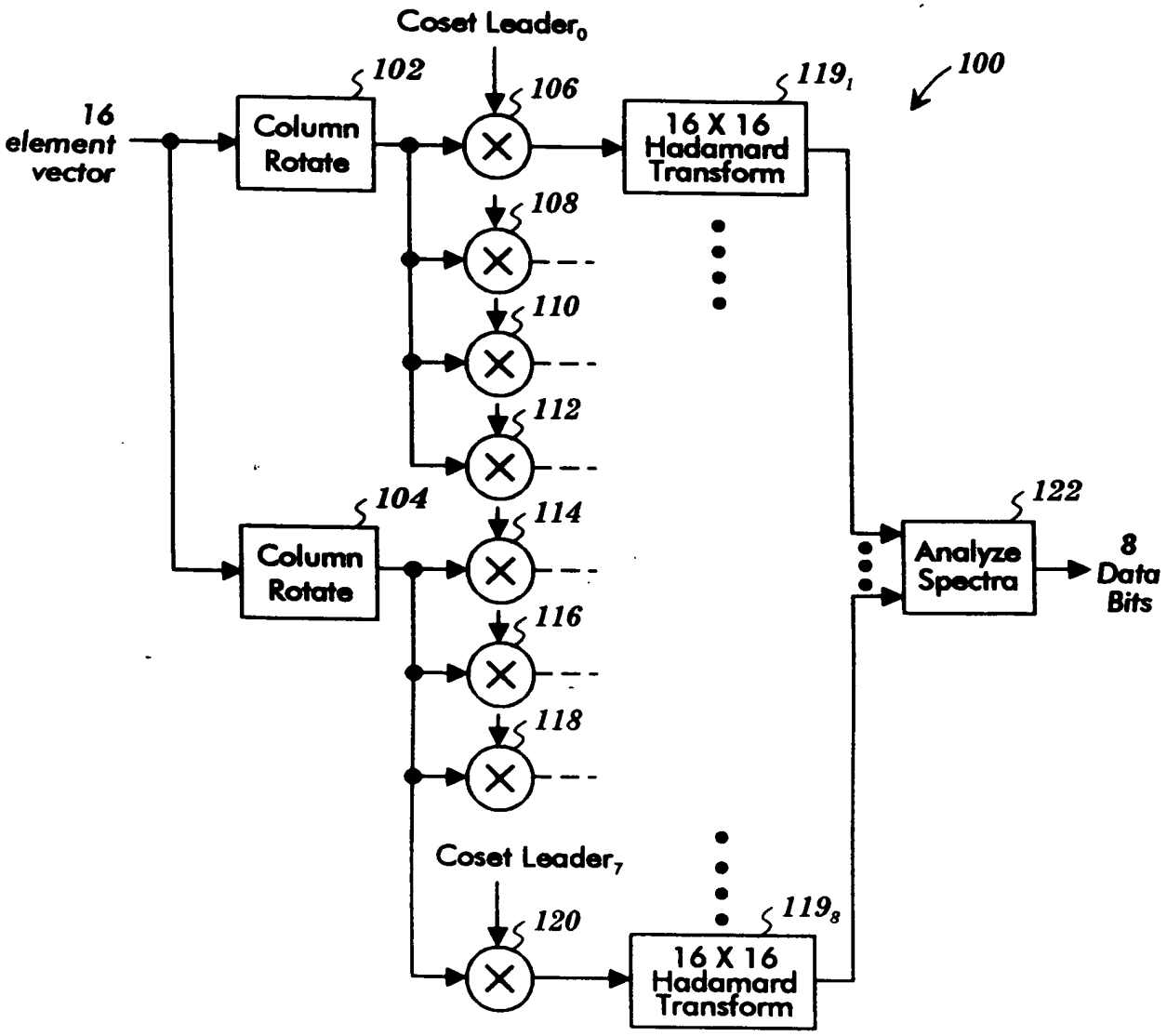
Coset Leader$_0$
102
106
119_1
100
16 element vector
Column Rotate
16 X 16 Hadamard Transform
108
110
112
104
114
122
Column Rotate
Analyze Spectra
8 Data Bits
116
118
Coset Leader$_7$
120
119_8
16 X 16 Hadamard Transform

Figure 10

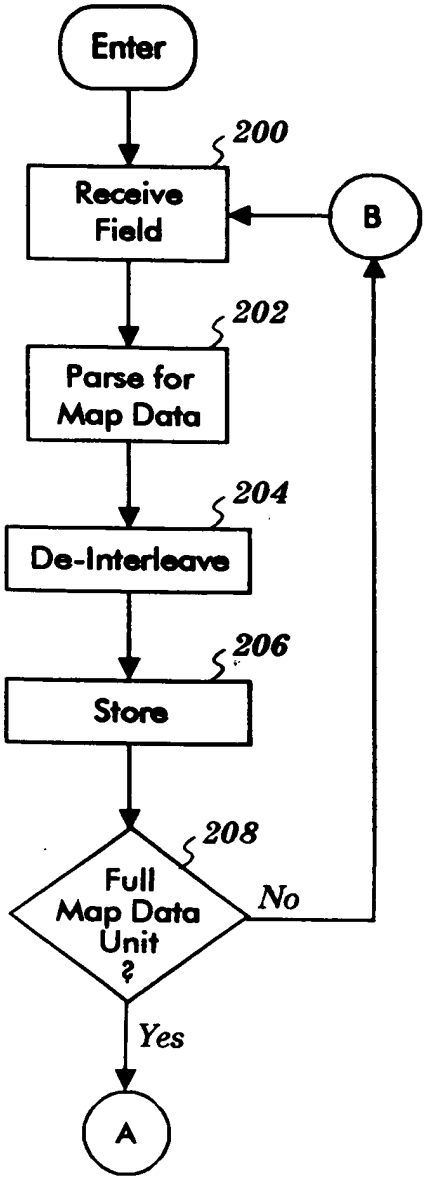

Figure 11A

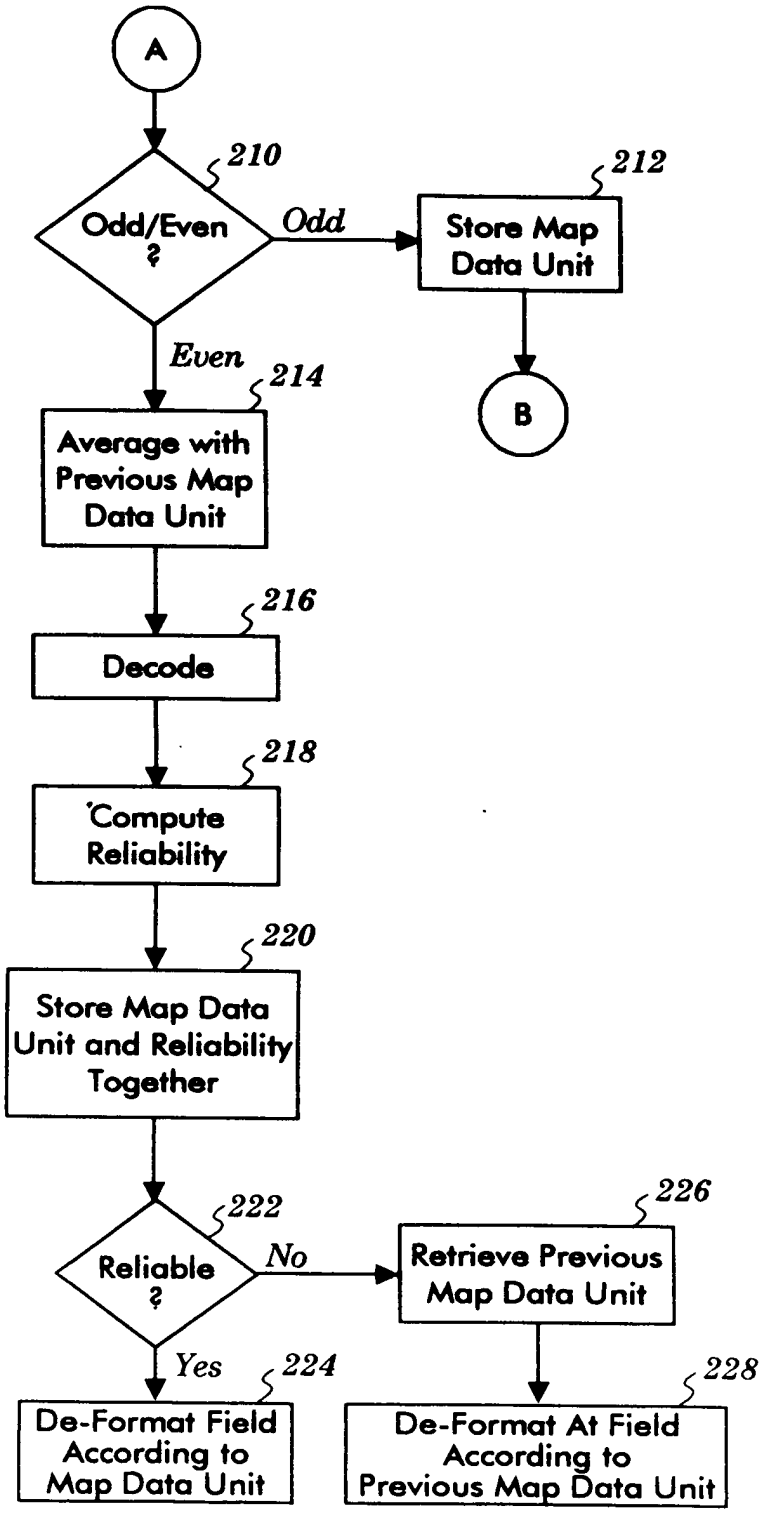

Figure 11B

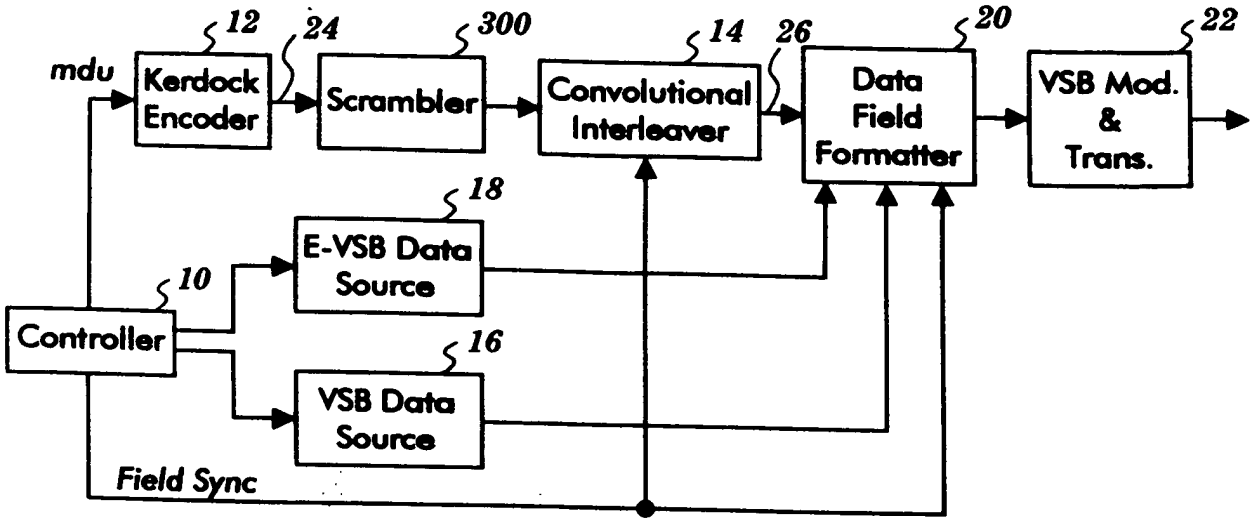

Figure 12

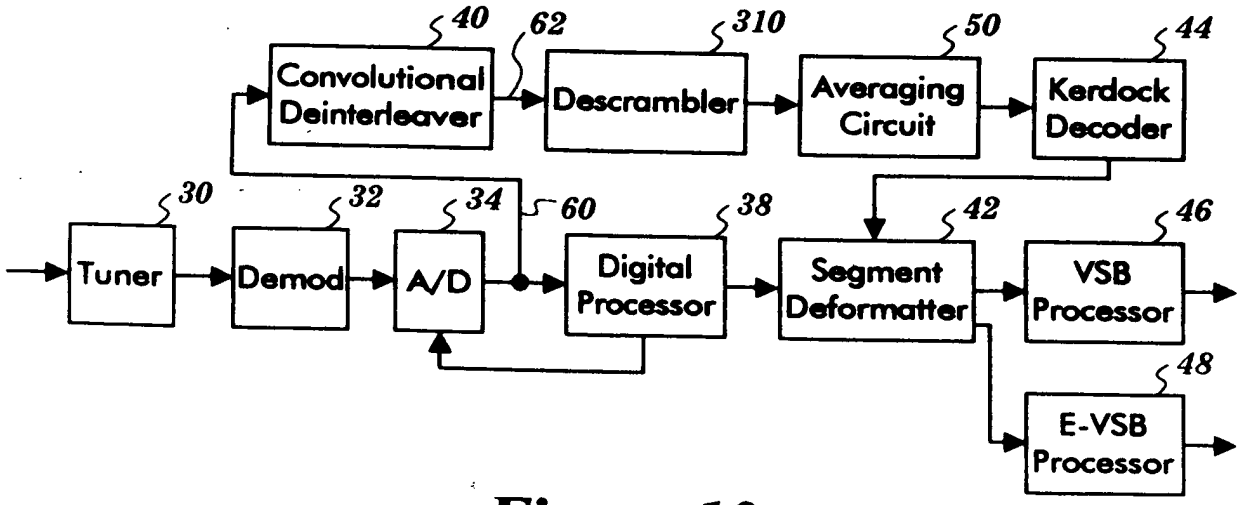

Figure 13

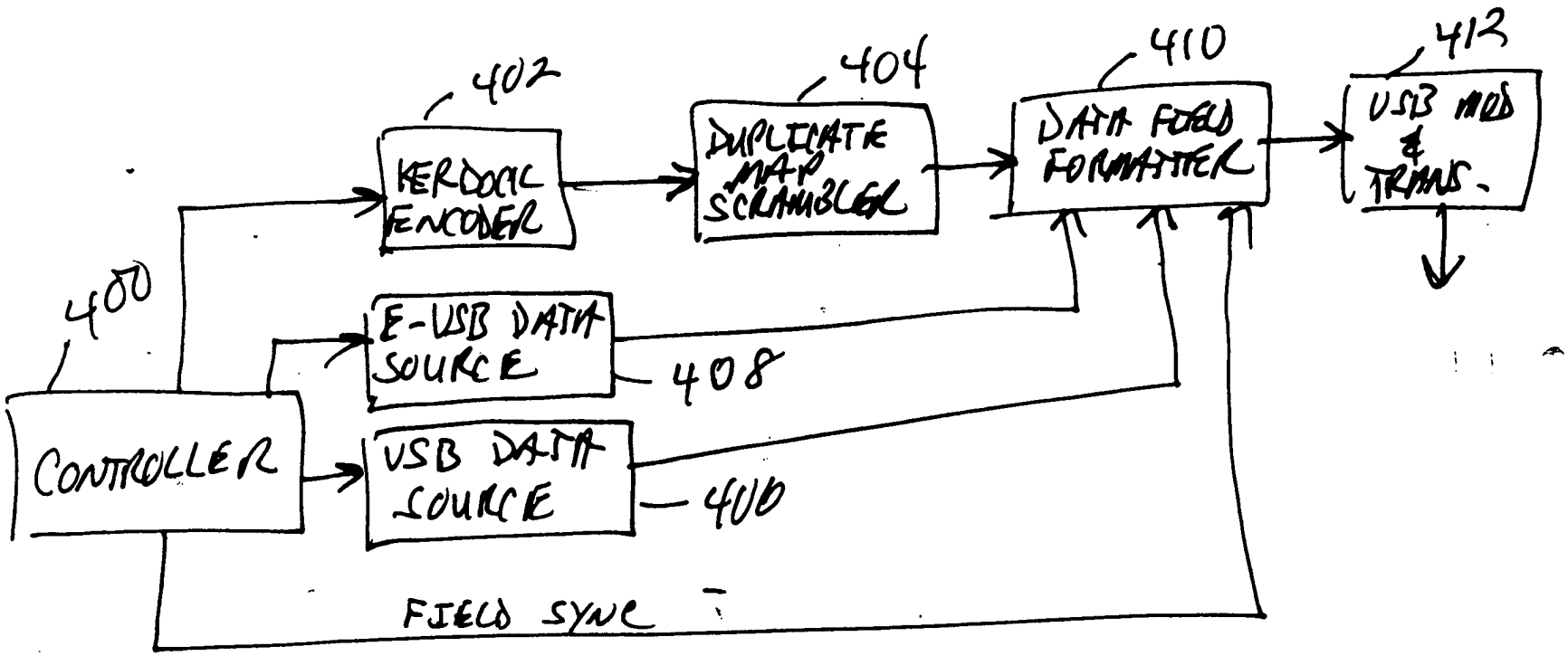
400
CONTROLLER
402
KEROCIC ENCODER
404
DUPLICATE MAP SCRAMBLER
410
DATA FORD FORMATTER
412
USB MOD & TRANS.
E-USB DATA SOURCE
408
USB DATA SOURCE
406
FIELD SYNC

FIGURE 14

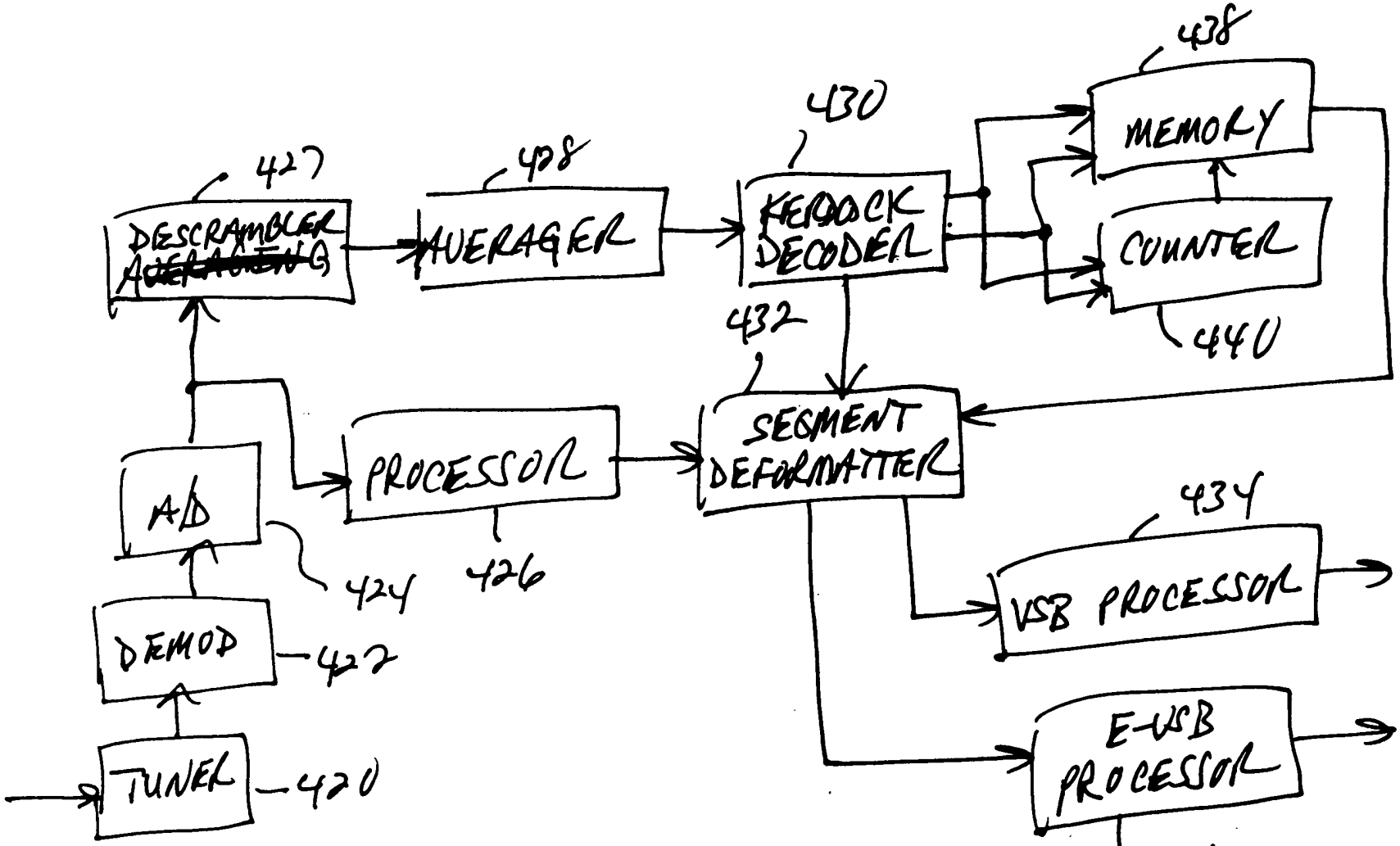
TUNER
420
DEMOD
422
A/D
424
PROCESSOR
426
DESCRAMBLER
427
AVERAGER
428
KEYDOCK DECODER
430
SEGMENT DEFORMATTER
432
MEMORY
438
COUNTER
440
VSB PROCESSOR
434
E-VSB PROCESSOR
436

FIGURE 5

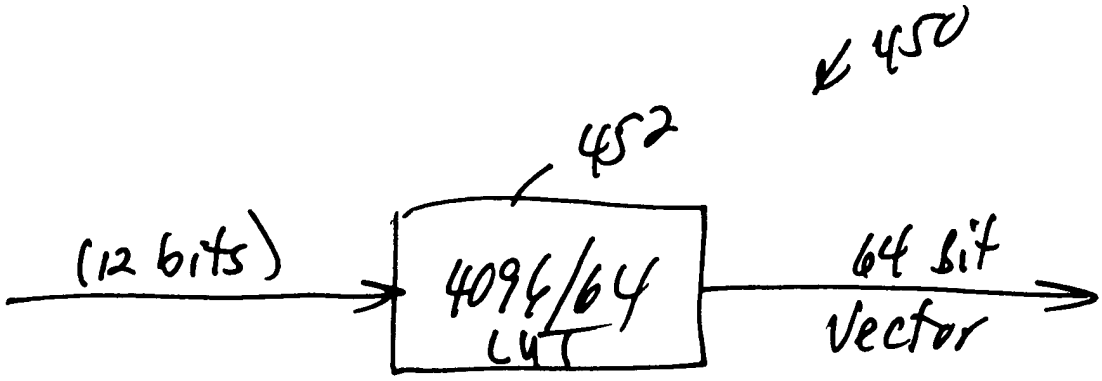

FIGURE 16

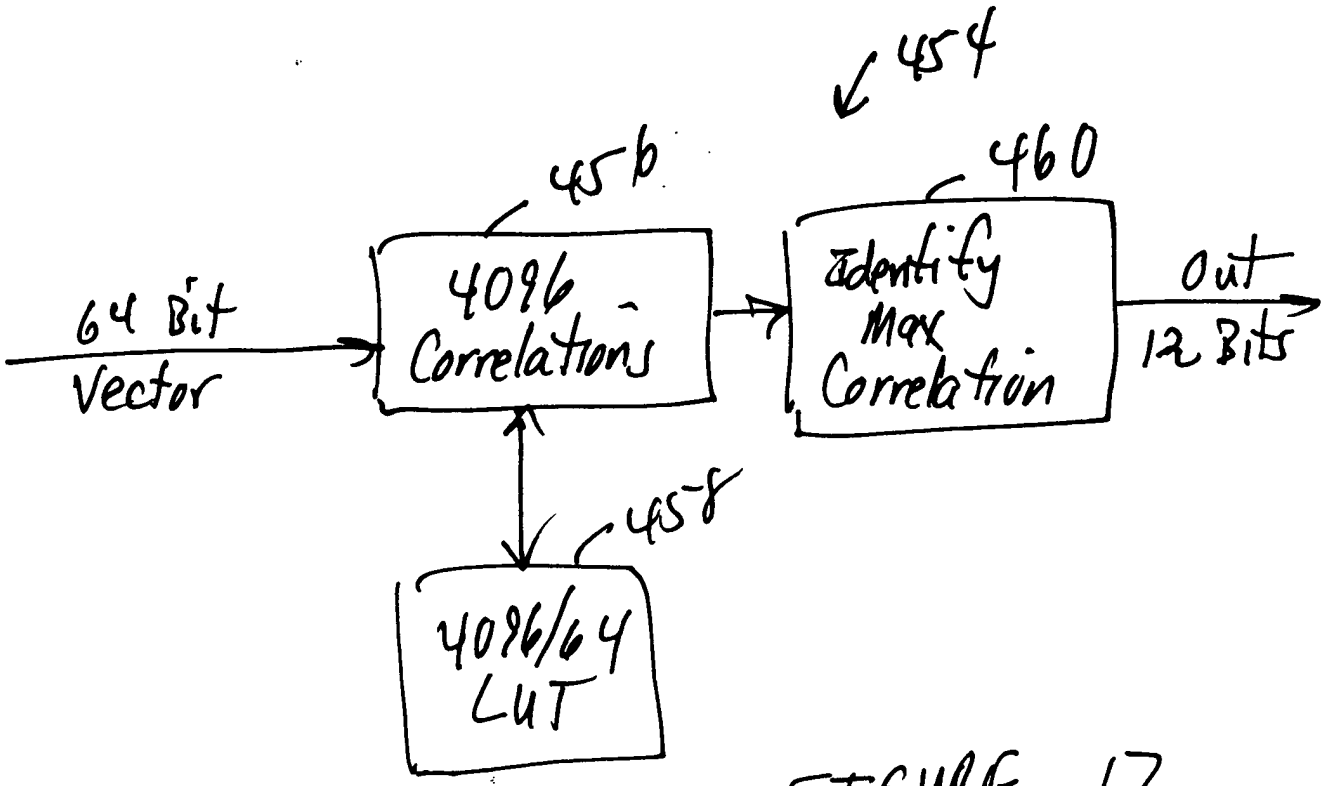

FIGURE 17

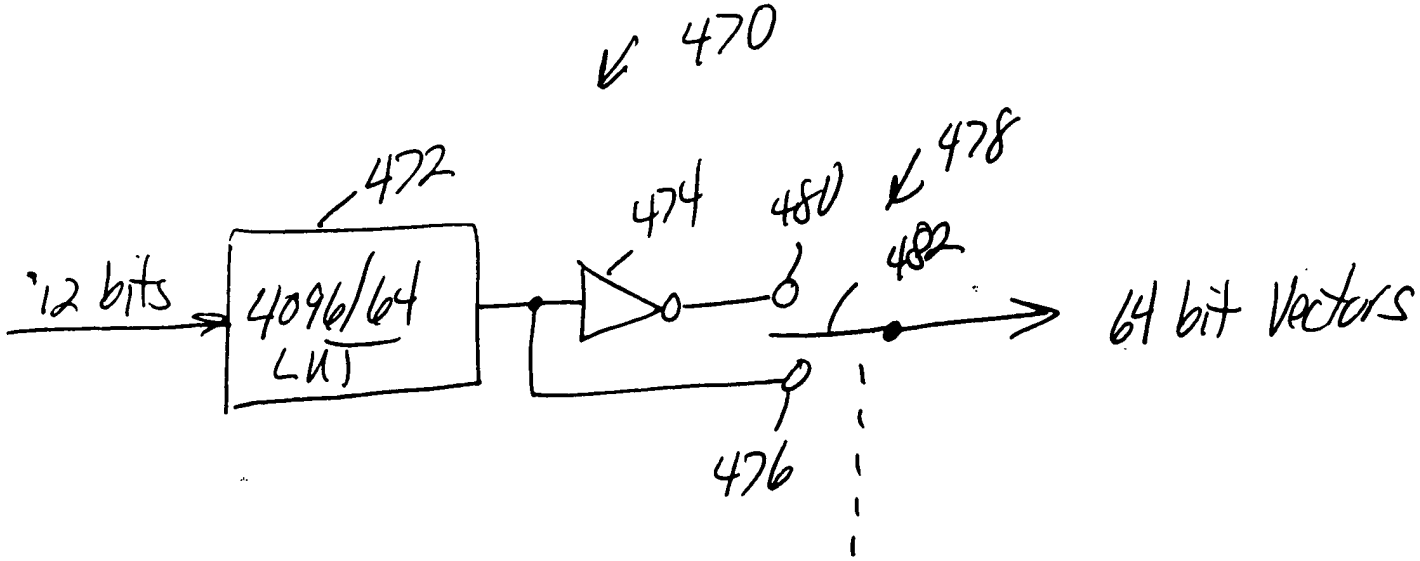

FIGURE 18

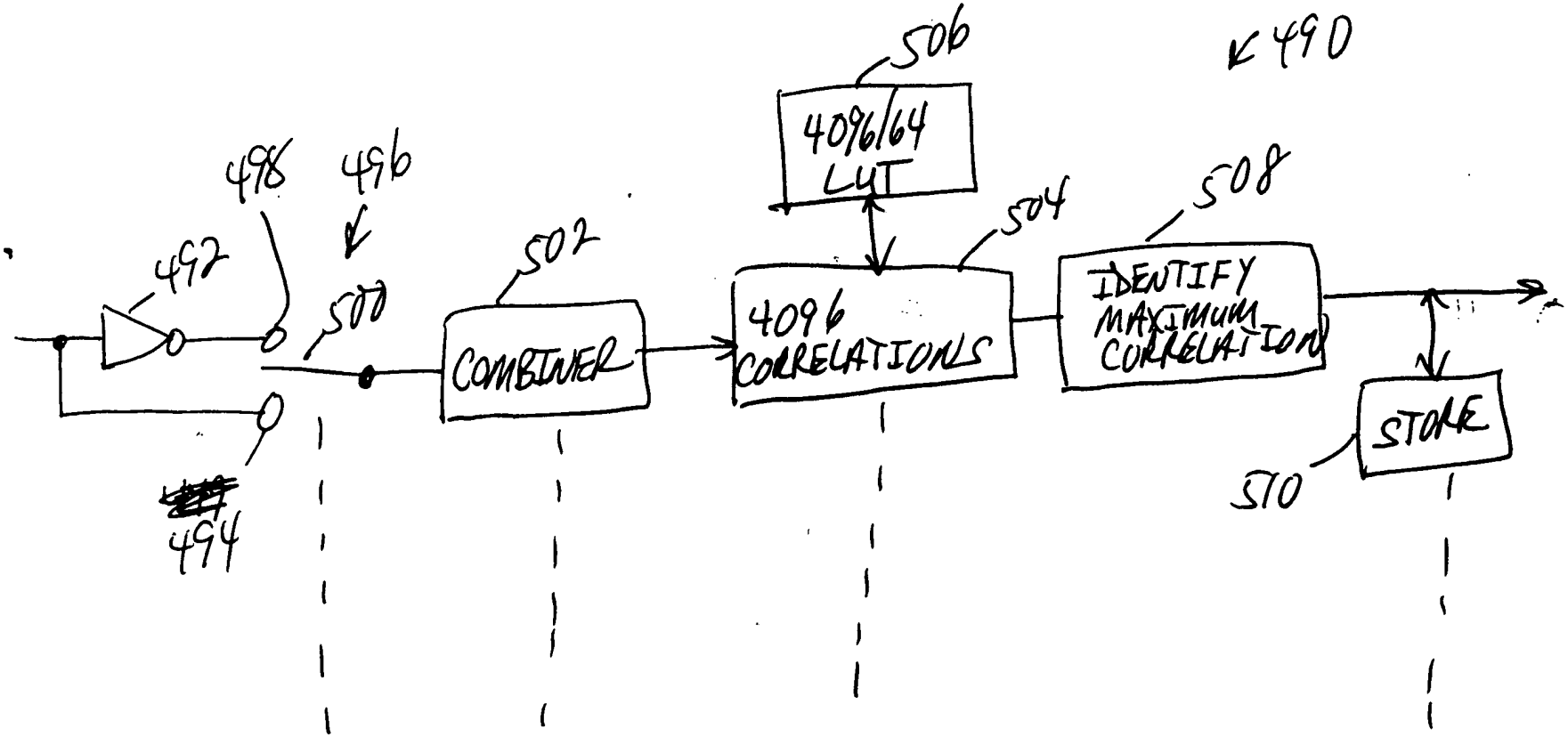
490
506
4096/64 LUT
498
496
492
500
502
504
508
IDENTIFY MAXIMUM CORRELATION
COMBINER
4096 CORRELATIONS
STORE
494
510

FIGURE 19

7204C185

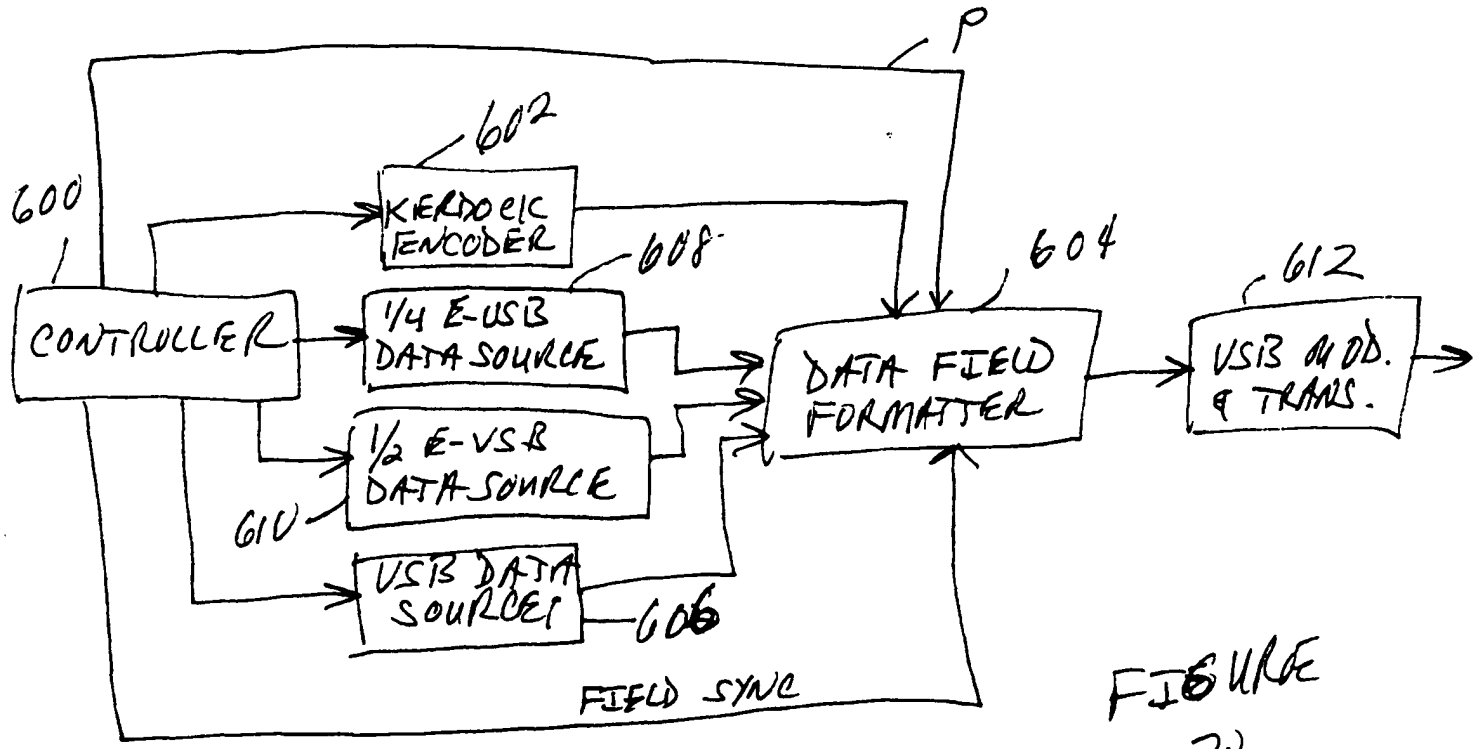

FIGURE 20

7204 CIP5

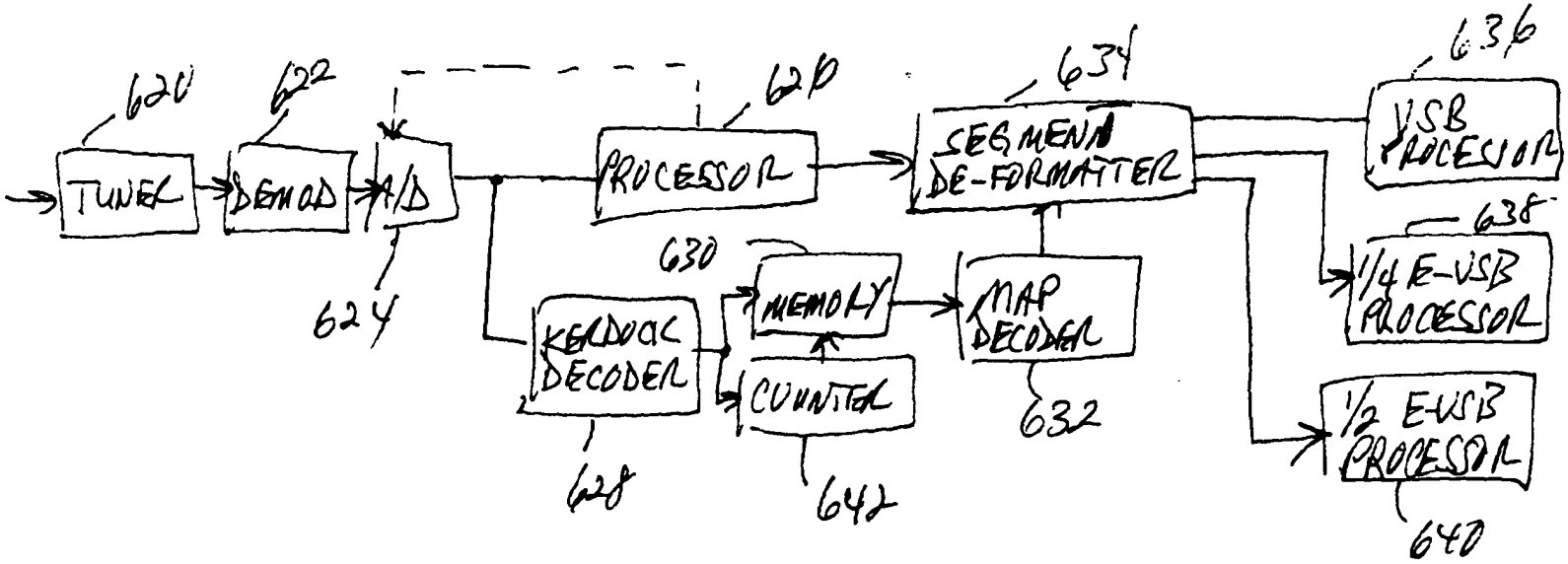

FIGURE 21

1/4 rate →

½ rate ↓

	0	4	8	12	16	20	24	...	292	296	300	304	308	312
0	0	4	8	12	16	20	24		292	296	300	304	308	312
2	2	6	10	14	18	22	26		294	298	302	306	310	314
4	4	8	12	16	20	24	28		296	300	304	308	312	316
6	6	10	14	18	22	26	30		298	302	306	310	314	318
8	8	12	16	20	24	28	32		300	304	308	312	316	320
10	10	14	18	22	26	30	34		302	306	310	314	318	322
12	12	16	20	24	28	32	36		304	308	312	316	320	324
14	14	18	22	26	30	34	38		306	310	314	318	322	326
16	16	20	24	28	32	36	40		308	312	316	320	324	328
18	18	22	26	30	34	38	42		310	314	318	322	326	330
⋮														
288	288	292	296	300	304	308	312		580	584	588	592	596	600
290	290	294	298	302	306	310	314		582	586	590	594	598	602
292	292	296	300	304	308	312	316		584	588	592	596	600	604
294	294	298	302	306	310	314	318		586	590	594	598	602	606
296	296	300	304	308	312	316	320		588	592	596	600	604	608
298	298	302	306	310	314	318	322		590	594	598	602	606	610
300	300	304	308	312	316	320	324		592	596	600	604	608	612
302	302	306	310	314	318	322	326		594	598	602	606	610	614
304	304	308	312	316	320	324	328		596	600	604	608	612	616
306	306	310	314	318	322	326	330		598	602	606	610	614	618
308	308	312	316	320	324	328	332		600	604	608	612	616	620
310	310	314	318	322	326	330	334		602	606	610	614	618	622
312	312	316	320	324	328	332	336		604	608	612	616	620	624

Fig. 22